

CLAIMS:

1. A method for controlling the recording of data such as streaming data by a mobile recording apparatus, comprising the steps of:
 - receiving a data input signal;
 - compressing the data signal in a scalable manner using a scalable encoder to
 - 5 create a scalable encoded data stream;
 - beginning storage of the scalable encoded data stream in a storage device at a first bit-rate;
 - determining remaining battery life for the apparatus at the first bit-rate; and
 - reducing the bit rate of the scalable encoded data stream to a second bit-rate to
 - 10 lengthen the remaining battery life of the apparatus in dependence on the remaining battery life.
2. The method according to claim 1, wherein said data is at least one of video data, audio data, audio/video data.
- 15 3. The method according to claim 1, wherein the user manually selects the reduction of the bit-rate.
4. The method according to claim 1, further comprising the steps of:
 - 20 selecting a predetermined amount of recording time needed, wherein the apparatus automatically switches to a lower bit-rate when the remaining battery life is less than the predetermined amount of recording time.
5. The method according to claim 1, wherein the data signal is compressed in a
- 25 layered manner using the scalable encoder.
6. A method for displaying stored content on a display, wherein the stored content has been stored in a storage device in a scalable format, the method comprising the steps of:

- selecting content to be displayed in a first quality level;
determining a duration of the content selected;
determining remaining battery life for the apparatus;
changing the quality level of the content displayed to a lower quality level
5 when the remaining battery life is less than the duration of the selected content.
7. The method according to claim 6, wherein said content is at least one of video data, audio data, audio/video data.
- 10 8. The method according to claim 6, wherein the stored video content is stored in such a manner that power dissipation is minimized during skipping of the enhancement layer data during play-back of the content at the lower quality level.
9. The method according to claim 8, wherein blocks of data belonging to the base
15 layer and at least one enhancement layer are written alternately to the storage device.
10. The method according to claim 8, wherein the at least one enhancement layer is written in a separate file on a different location of the storage device.
- 20 11. The method according to claim 8, wherein base layer blocks are positioned a predetermined number of revolutions of a storage device plus a small offset from the end of a previous base layer block.
12. An apparatus for controlling the recording of data such as streaming data by a
25 mobile recording apparatus, comprising:
means for receiving a data input signal;
an encoder for compressing the data signal in a scalable manner to create a scalable encoded data stream;
storage means for beginning storage of the scalable encoded data stream at a
30 first bit-rate;
means for determining remaining battery life for the apparatus at the first bit-rate; and

means for reducing the bit rate of the scalable encoded data stream in dependence on the remaining battery life to a second bit-rate to lengthen the remaining battery life of the apparatus.

- 5 13. An apparatus for displaying stored content on a display, wherein the stored content has been stored in a storage device in a scalable format, the apparatus comprising:
- means for selecting content to be displayed in a first quality level;
- means for determining a duration of the content selected;
- means for determining remaining battery life for the apparatus;
- 10 means for changing the quality level of the content displayed to a lower quality level when the remaining battery life is less than the duration of the selected content.